

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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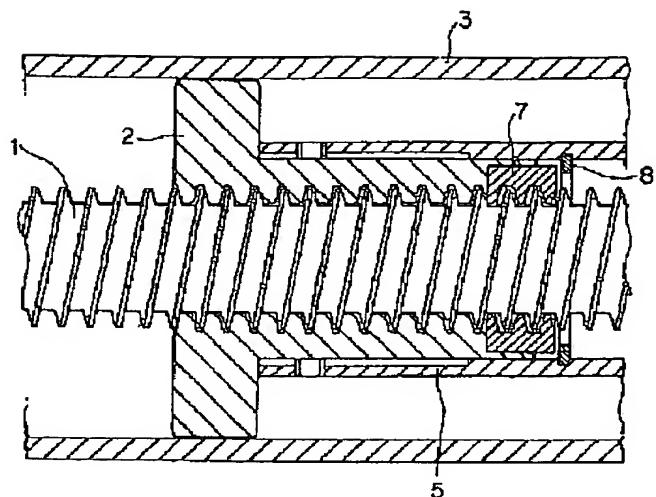
APPLICATION DATE : 06-02-95  
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APPLICANT : TSUBAKIMOTO CHAIN CO;

INVENTOR : KISHIDA MAKOTO;

INT.CL. : F16H 25/20

TITLE : SAFETY DEVICE FOR LINEAR  
OPERATING MACHINE BY SCREW  
SHAFT



ABSTRACT : PURPOSE: To improve safety and reliability by providing a linear operating rod drop preventing nut screwed to float on a screw shaft, in a nut member, in a linear operating machine having a linear operating rod provided with the nut member screwed to a drive rotary screw shaft and locked not to be turn.

CONSTITUTION: In a linear operating machine, a nut member 2 is screwed to a screw shaft 1 rotated by a motor, and a connecting metal fitting to a linear motion moved body is mounted in a point end of a linear operating lever 5 secured to the nut member 2. Here in the nut member 2, a linear operating rod drop preventing nut 7, screwed to float in the screw shaft 1, is press fit mounted by adjusting turning so as to form a thread ridge continued to a thread ridge of the nut member 2, to provide a stop ring 8 so as to prevent separating this drop preventing nut 7. In this way, even when abnormally worn or collapsed a screwing surface of the nut member 2, the drop preventing nut 7 receives the lever stopped by a screwing surface of the screw shaft 1, to prevent dropping down the linear operating rod 5, so as to ensure safety of work.

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